Abstract

The invention relates to a method for coating a workpiece, whereby a material is applied to the workpiece by thermal spray coating. According to this invention, the spraying process is monitored on-line by detecting properties of the particles in the spray jet and supplying them as actual values, whereby the actual values are compared directly with target values, or characteristic quantities derived from the actual values are compared with the target values and, when a deviation is found between the actual values or characteristic quantities and the pre-specified target values, the process parameters for thermal spray coating are automatically adjusted by a regulator on the basis of a neuronal network.

(Figure 1)